

PRODUCTION OF 1-HEXENE

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Abstract of JP9268134

PROBLEM TO BE SOLVED: To provide a method for producing 1-hexene by trimerizing ethylene in the presence of a chromium catalyst comprising three components, capable of highly selectively obtaining the 1-hexene by using an aliphatic hydrocarbon as a solvent and adding a specific olefin, diene or triene compound in a specified amount to the reaction system.

SOLUTION: This method for producing 1-hexene comprises trimerizing ethylene in the presence of a chromium catalyst comprising a chromium compound, an alkyl metal compound and highly safe and easily handleable imide compound. Therein, an aliphatic hydrocarbon is used as a solvent, and one or more kinds of compounds selected from the group consisting of an inner olefin compound, a non-conjugated diene compound and a non-conjugated triene compound is added to the reaction system in an amount of 0.01-50vol.% based on the charged solution. The added olefin compound is preferably a non-conjugated diene compound, especially preferably 1,5-cyclooctadiene. The solvent is preferably cyclohexane or heptane. The imide compound is preferably melimide, etc. The chromium compound is preferably chromium & beta-diketonate compounds, etc., and the alkyl metal compound is preferably methyl lithium, etc.

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